

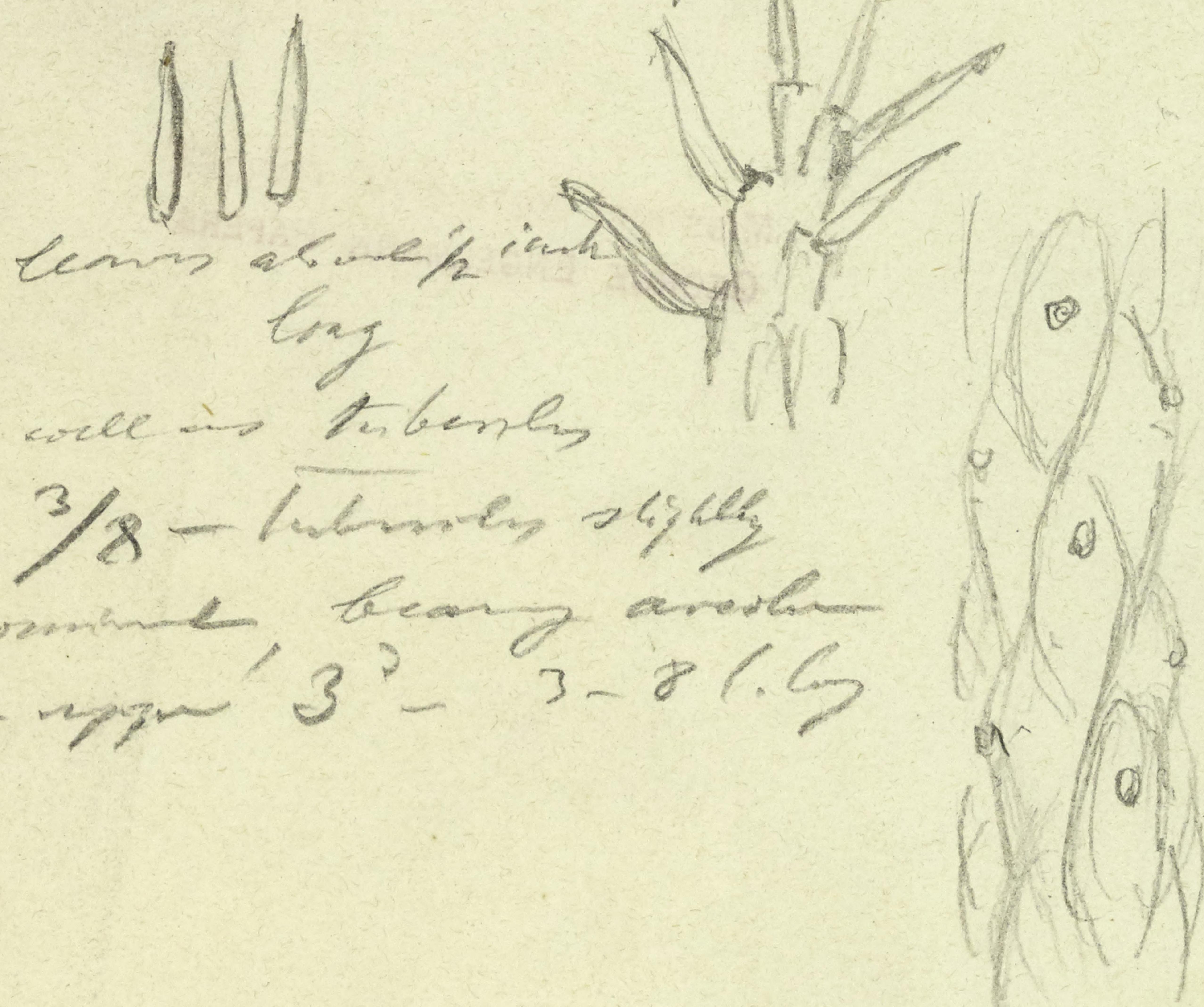
# GEORGE ENGELMANN BOTANICAL NOTEBOOKS

*Pagination Note:  
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

*Ophiurus Davisii?*

June 6 1876

var? from Texas, cultivated by me



leaves about  $\frac{1}{2}$  inch  
long

as well as tuberous

$\approx \frac{3}{8}$  - tuberous slightly  
prominent bearing anthers  
on upper  $1\frac{3}{4}$  - 3-8 l. l.



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

2606

ALEX. LEITCH,  
APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



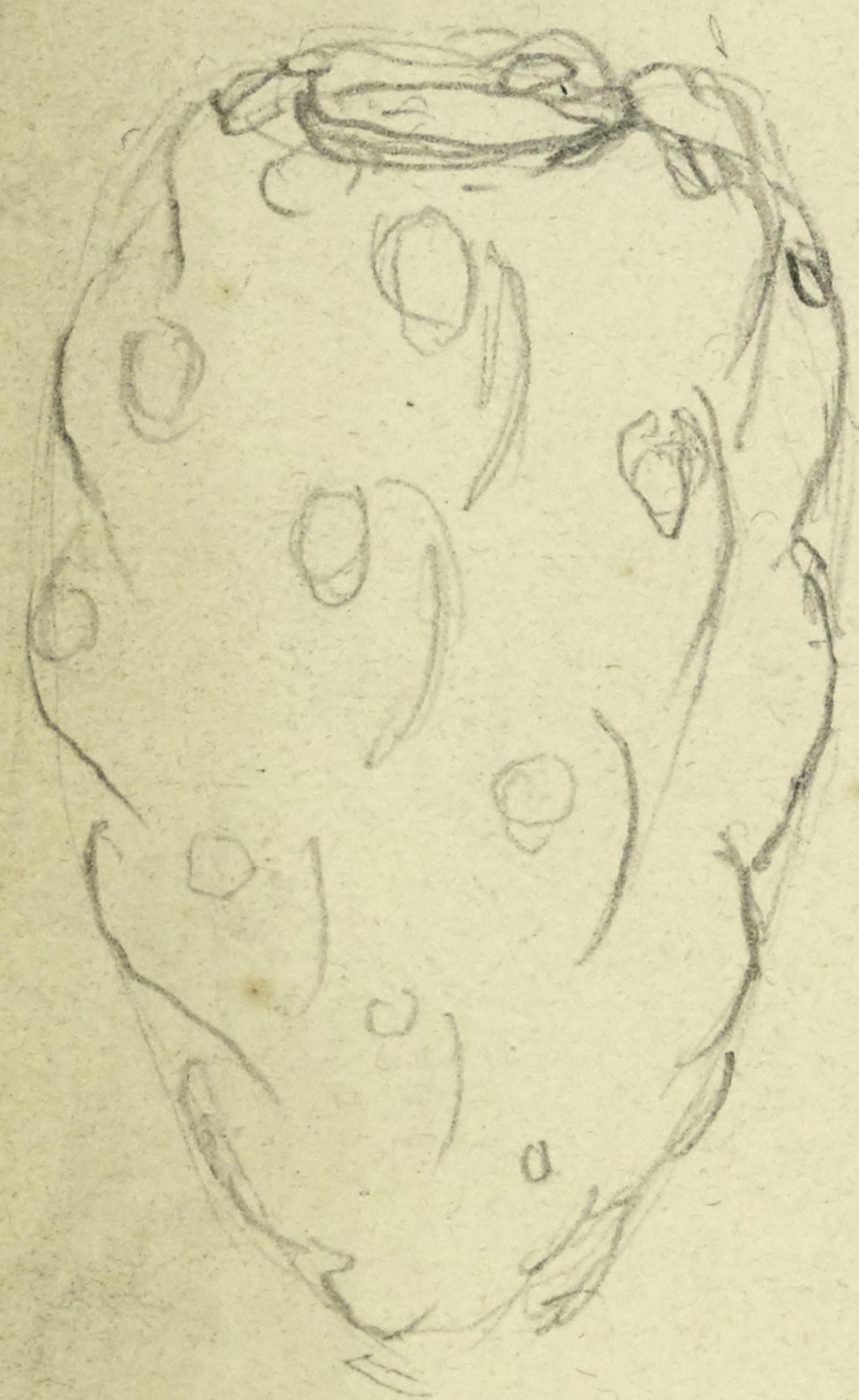
MISSOURI  
BOTANICAL  
GARDEN

*Opuntia* *prolifera*

In Diego?

Arizona?

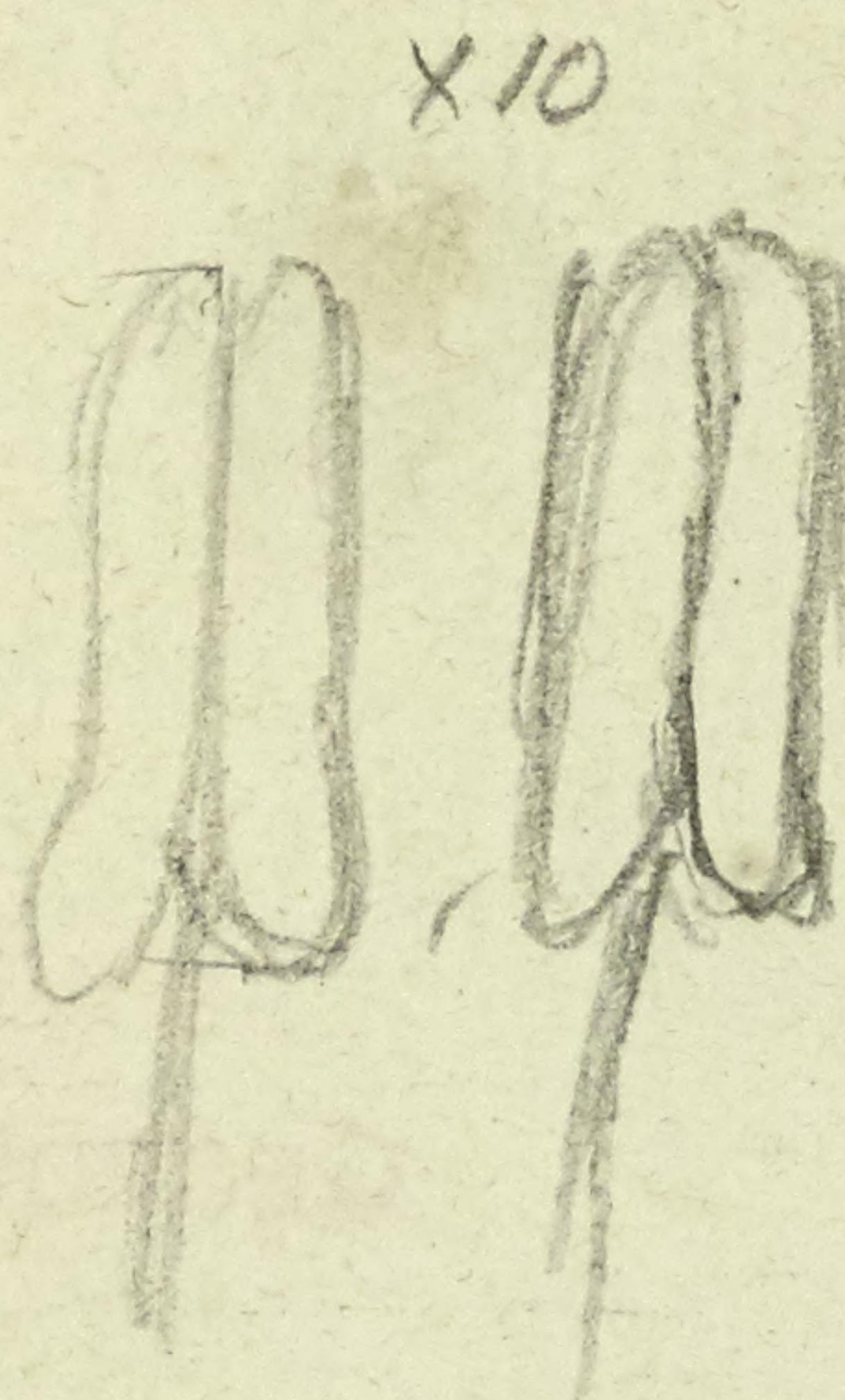
May 18 1876



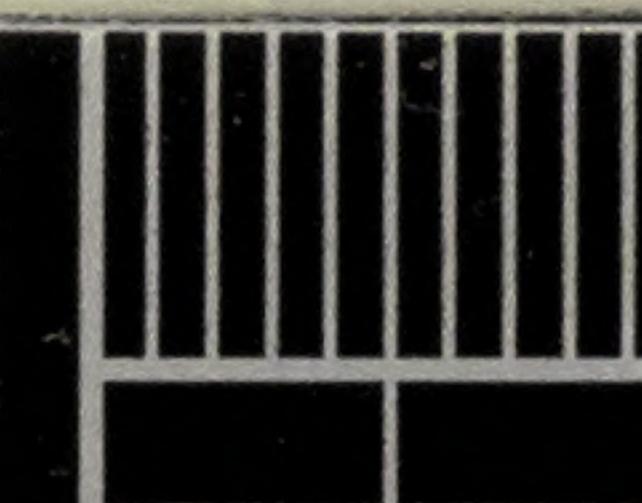
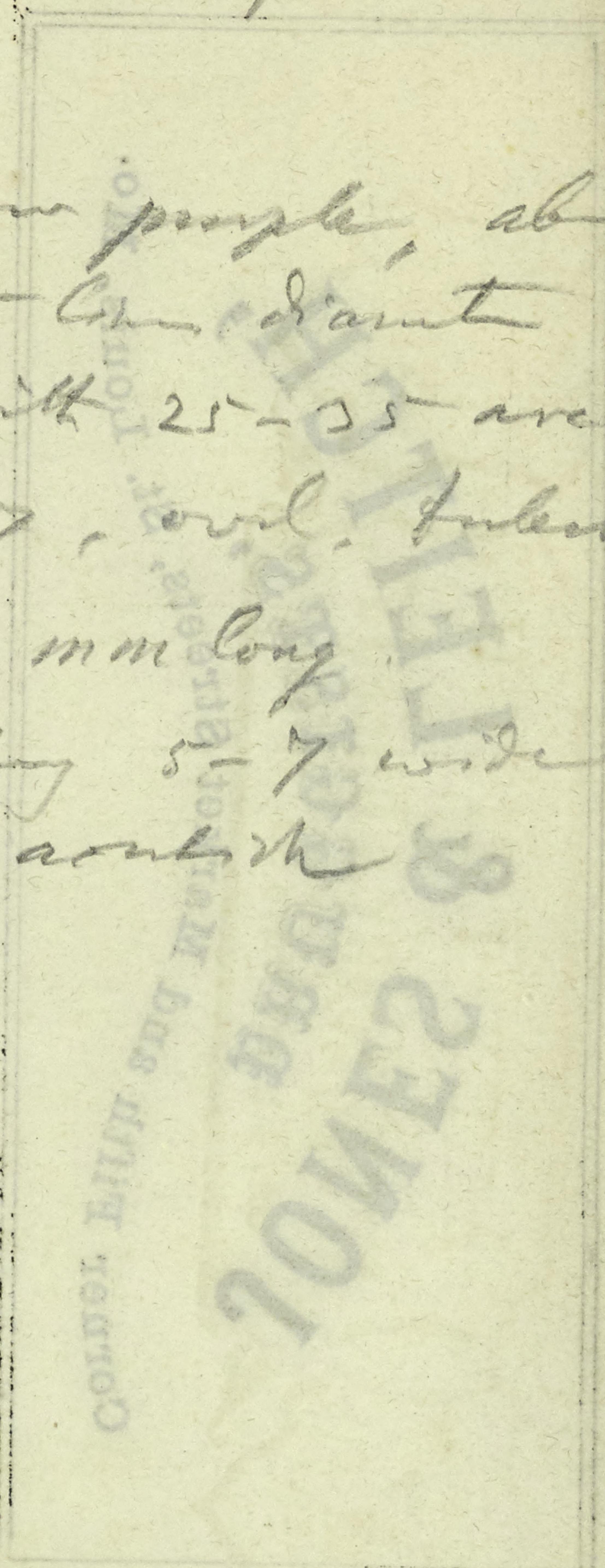
>25 areola  
stems fruit, ovules  
abortive, cavity  
very small



x4  
5-6 stigmas white  
style reddish



flower purple, abt  
12-15 cm diam  
areo with 25-35 areol  
1 mm long, oval, tubercles  
tube 2½-3 mm long  
petals 7 mm long 5-7 wide  
oval obtuse or acute



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved

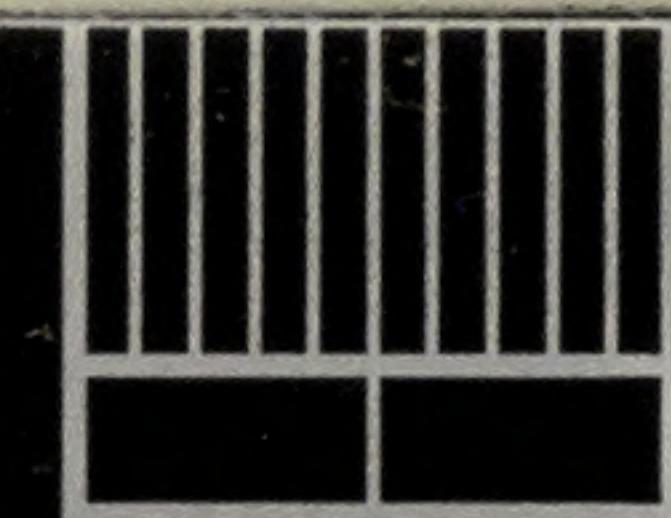


MISSOURI  
BOTANICAL  
GARDEN

2607

JONES & LEITCH,  
DRUGGISTS,  
and Market Streets, St. Louis, Mo.  
Corner Fifth and

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

*Opuntia Bigelowii*

April 20 1880

fruit

San Bernardino desert, S. Barst



2.4.6.10. 16.  $\frac{10}{15}$  inches  
45-53 mm.

8 petals



15-17 stamens  
dirty red  
outer ones minute, sterile  
none conjuginate

leaves x 4.  
 $\frac{3}{4}$  time long

style  
28 slightly capitate



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

H. W. BARKHOEFER & CO.,

DRUGGISTS & PHARMACISTS,

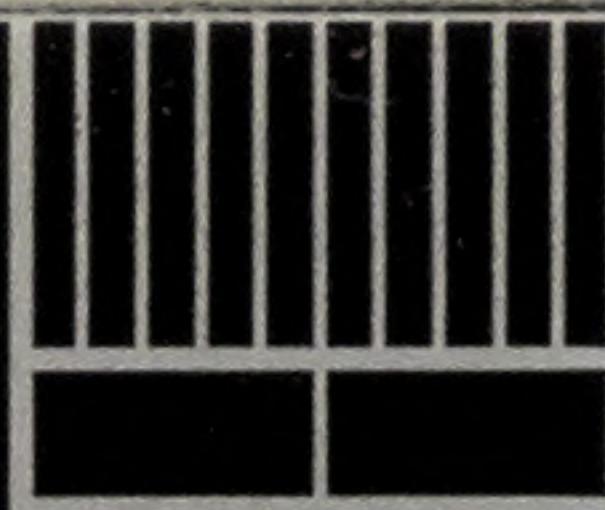
No. 2934 Olive Street, S. E. Corner Garrison Avenue,

ST. LOUIS, MO.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

2609

R



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

*Oenothera polystachya* May 5 1876  
From San Diego - Hart Bot. Museum



$\times 2$

9 white stigmas  
capitate

18-20 tubules of ovary  
very prominent

stems 20 l. long

resemble cowpea only 1 man

long  
stems half as long as style

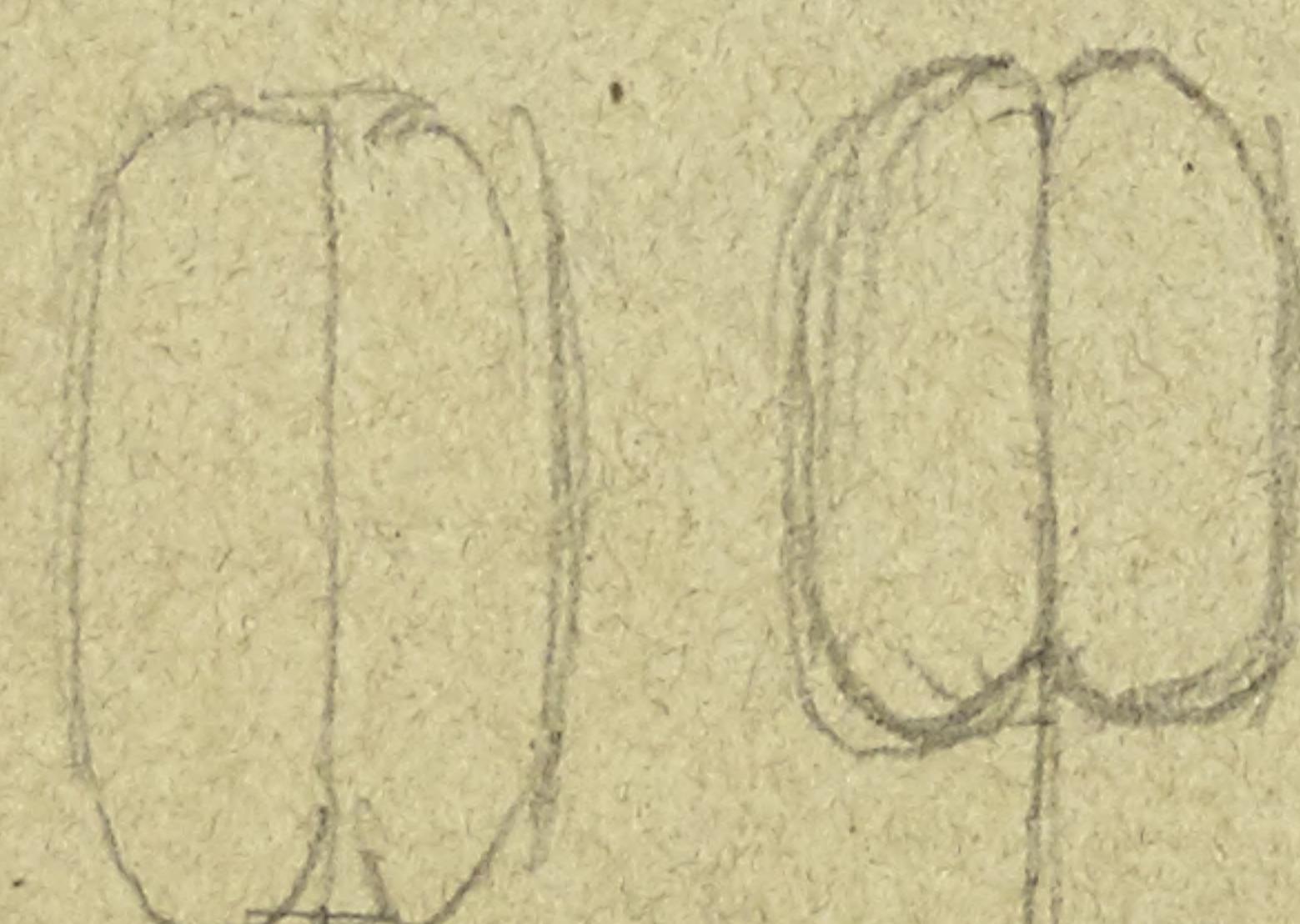
8-10 obtuse obovate

spatulate greenish yellow  
petals

sepals red brown

toward tip and

on midrib



$\times 10$

innermost outer  
stamens



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved

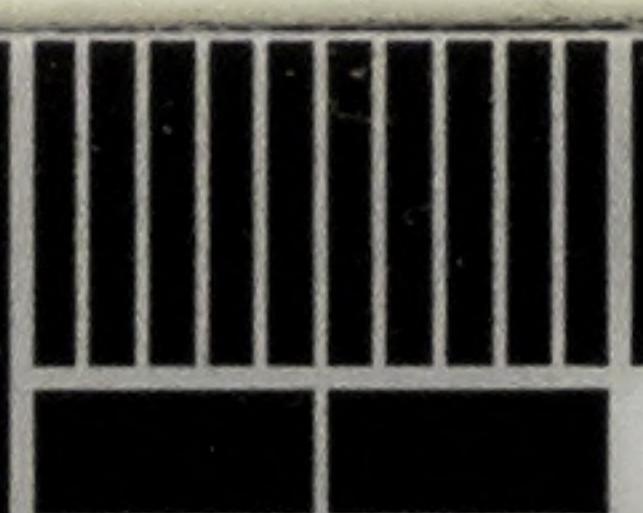


MISSOURI  
BOTANICAL  
GARDEN

2608



MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Sept 30 1880

*Op. schenckii*

x4

Aqua Caliente, San Bernardino Desert L. Parish

- fl. April 1880

fl - greenish yellow

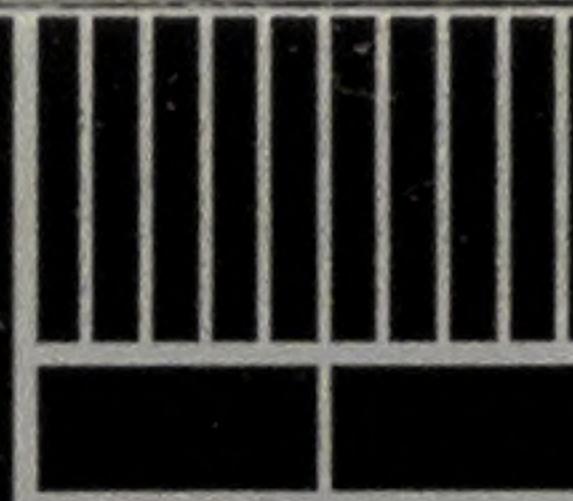


leaves 2 ft long.

about 20 articles on ovary.



5 plants spreading



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

H. W. BARKHOEFER & CO.,

DRUGGISTS & PHARMACISTS,

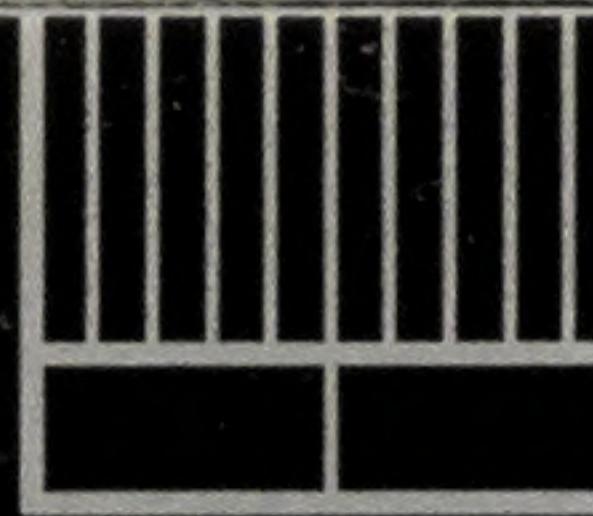
No. 2934 Olive Street, S. E. Corner Garrison Avenue,

ST. LOUIS, MO.

2610

GEORGE WIGELMANN PAPERS

R



0  
cm

1

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

J. A. Weber letter Dec 7<sup>th</sup> 1883

*Opuntia cylindrica* (Amer. austro-occid.)  
enumerates [my pachyspermae]

*O. cylindrica* Tuss. 2340

*O. teres* Hort. similar to last, but much more slender

*O. pulvinata* Pf. (syn. *O. Miqueli*) *O. Seggetti* Phil.  
desert of Atacama

*O. Verschaffeltii* Hort. Argentina, Catamarca

*O. Schickendantzii* Web. Catamarca  
yellowish white flowers, similar to *Salmiana*

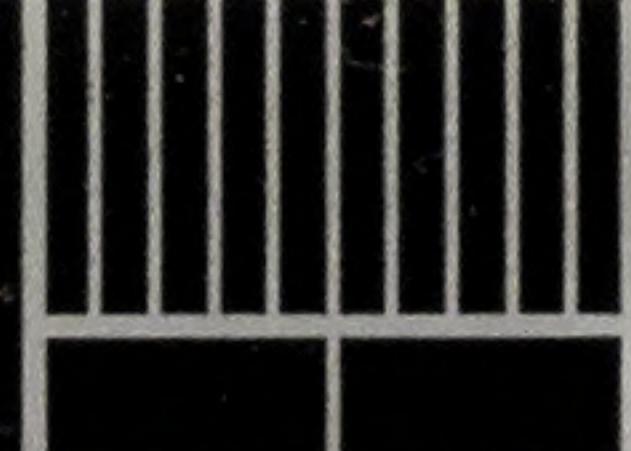
*O. vestita* purple fl., green stripes

*O. florosa* straw yellow flowers, Peru

*O. denudata* Weber, similar to last, larger and  
without hair Peru

"etc etc" [what does this mean?]

[I add *Op. subulata* Cogn (Peruviana Mehlkapp)]



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Rev Dec 26 1883

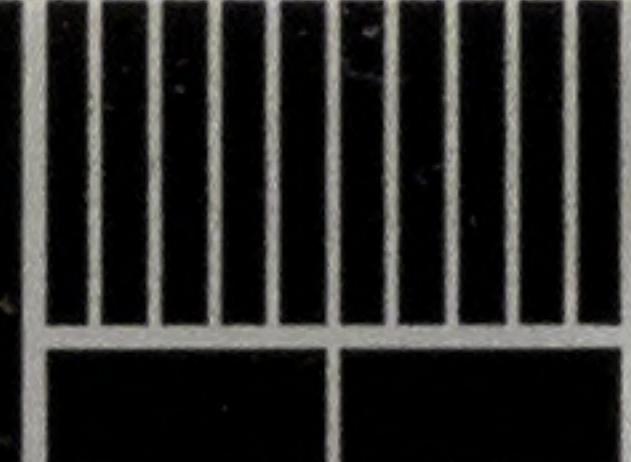
2611

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

Chicago Dec 23

Dr. Geo Engelmann  
Please Sir.

Dr. Edmund Andrews  
of the Chicago Academy  
of Science said he had  
received a letter or word  
from a Mr. McC Adams  
of Altow Ill in reference  
to a lecture you had  
delivered to us before the  
Soc. of Sciences on the



0 1 2 3 4 5 6 7 8 9 10  
cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

sheltered from the wind, and the warm July sun brought the temperature up to a more seasonable point.

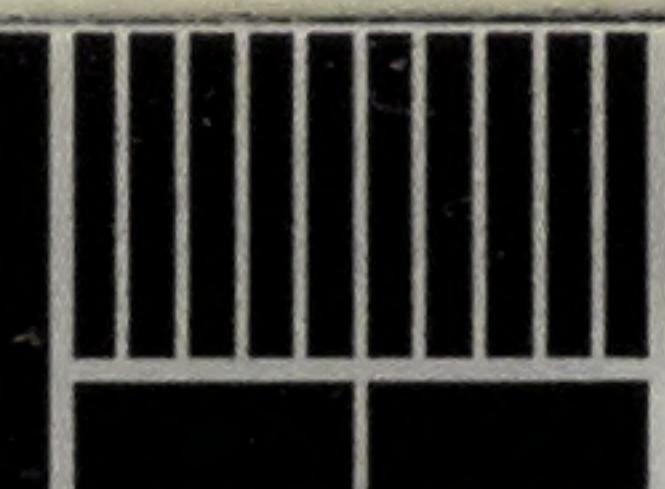
Turning toward Tuckermans' Ravine, with snow visible on its sides, we soon came to what might be called mountain meadows, or rather moors, many acres in extent, green with matted patches of the Carices already noted, *Juncus*, *Luzula arcuata*, *Hierochloa alpina*, and other grasses. *Veratum viride* is very abundant and conspicuous, its spikes just beginning to form. *Viola palustris* is plentiful. *Kalmia glauca* and *Lonicera coerulea* occur in clumps. A dwarf form of *Streptopus roseus* is common, and the bright yellow flowers of *Geum* add variety and color to the landscape. A little farther on *Castilleja pallida* covers the ground, and in crevices of rocky ridges we find *Phyllodoce taxifolia*, *Loiseleuria procumbens*, and *Cassiope hypnoides*.

Crossing this plateau to the westward near the old Crawford bridle path, on a gravelly plain, *Potentilla frigida* attracts our attention.

Going on, we find ourselves at the beautiful little Lake of the Clouds, and eat our lunch on a snow bank, two or three rods square and three feet thick. Here *Salix argyrocarpa*, *Betula glandulosa* and other shrubs occur in all stages of developement. Some just released from under the snow, have buds only beginning to swell, others a little farther away are in flower, while still others are in fruit. The same thing holds true for all the plants of these alpine summits, so that a difference of two or three rods in location, will often make a difference of a month in the time of flowering. *Rhododendron Lapponicum* though quite abundant is entirely out of bloom. *Ledum latifolium* is everywhere conspicuous with its profusion of white flowers.

Having finished our explorations, we started down the mouutain leaving the path, and following the little stream, whlch flows out of "Lake of the Clouds," down into the Gulf of Mexico, and thence into the head waters of the Ammonoosuc. The only plants of special interest, were *Habenaria obtusata*, and *Listera cordata*. But the scenery was very wild and picturesque. The descent was abrupt all the way, and every little while would lead to a precipice over which the stream would leap two or three hundred feet into the abyss, while we were obliged to make a detour in order to find some safer paths. But patience and hard work at length brought us to camp again, somewhat wearied with our ten hours tramp.

J. W. CHICKERING.



0  
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

2612

specimen of the California White Cedar, (*Librocedrus deodorens*), a tree some 25 feet high stands in the Botanic garden, with some smaller ones both there and in the Agricultural grounds. It forms a very compact pyramidal tree, in foliage much like the Arbor Vitæ. A number of other interesting native conifers in small specimens may be seen in the Botanical and Agricultural grounds, including the noted *Sequoia gigantea* and the two Torreyas, *T. taxifolia* and *T. Californica*.

GEORGE VASEY.

## MISSOURI BOTANICAL GARDEN

## GEORGE WHITEMAN PAPER

## White Mountain Notes.

A week in July spent in camp within two miles of Mt. Washington, afforded good opportunity for some observations upon the flora and fauna of the region. Among fishes *Salmo fontinalis*, the brook trout, claimed special attention, and over eighty pounds rewarded our piscatory attempts, all of which were either eaten around the camp fire, or forwarded to friends.

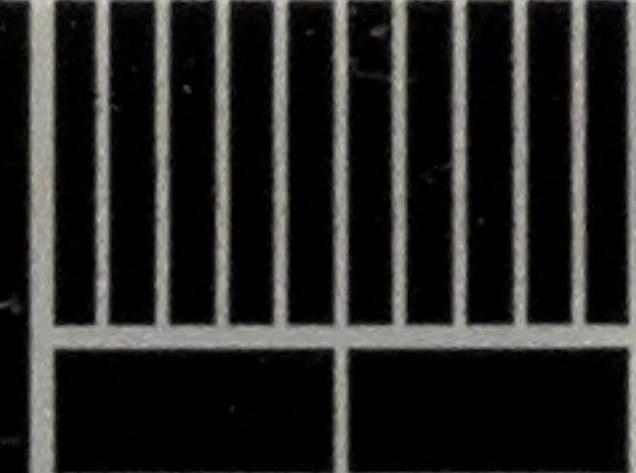
A noticeable fact, was the almost entire absence of the common earth-worm, *Lumbricus*, so that we had to import our supply for bait.

Along the streams *Arnica mollis*, and *Epilobium alpinum* were found sparingly, with here and there a few plants of *Geum radiatum*, var. *Peckii*, apparently washed down from the heights above, while *Alnus viridis* replaces *A. incana*, the common northern species, just as that replaces the southern species, *A. serrulata*.

July 12th, we made the ascent of Mt. Washington. Following the R. R. we found the common plants of the region, one after another disappearing, till we passed the timber belt, at an altitude of 3,000 to 4,000 feet. The first distinctively alpine plants noticed, were *Vaccinium vitis-idaea*, *V. caespitosum*, *V. uliginosum*, *Salix chlorophylla*, and *Empetrum nigrum*, closely associated, and growing in matted clumps among the rocks.

Five hundred feet higher we found dense patches of *Carex rigida*, var. *Bigelovii*, and *C. vulgaris*. Along the track appeared tufts of *Diapensia Lapponica*, characteristic and beautiful.

Reaching the summit, we found the weather record for the morning, ther. 36°, wind N. W., forty miles per hour. This rendered botanical researches rather a hardship, and we quickly descended, perhaps 1,000 feet to the plateau lying south of the highest peak. There we were

0  
cm

1

2

3

4

5

6

7

8

9

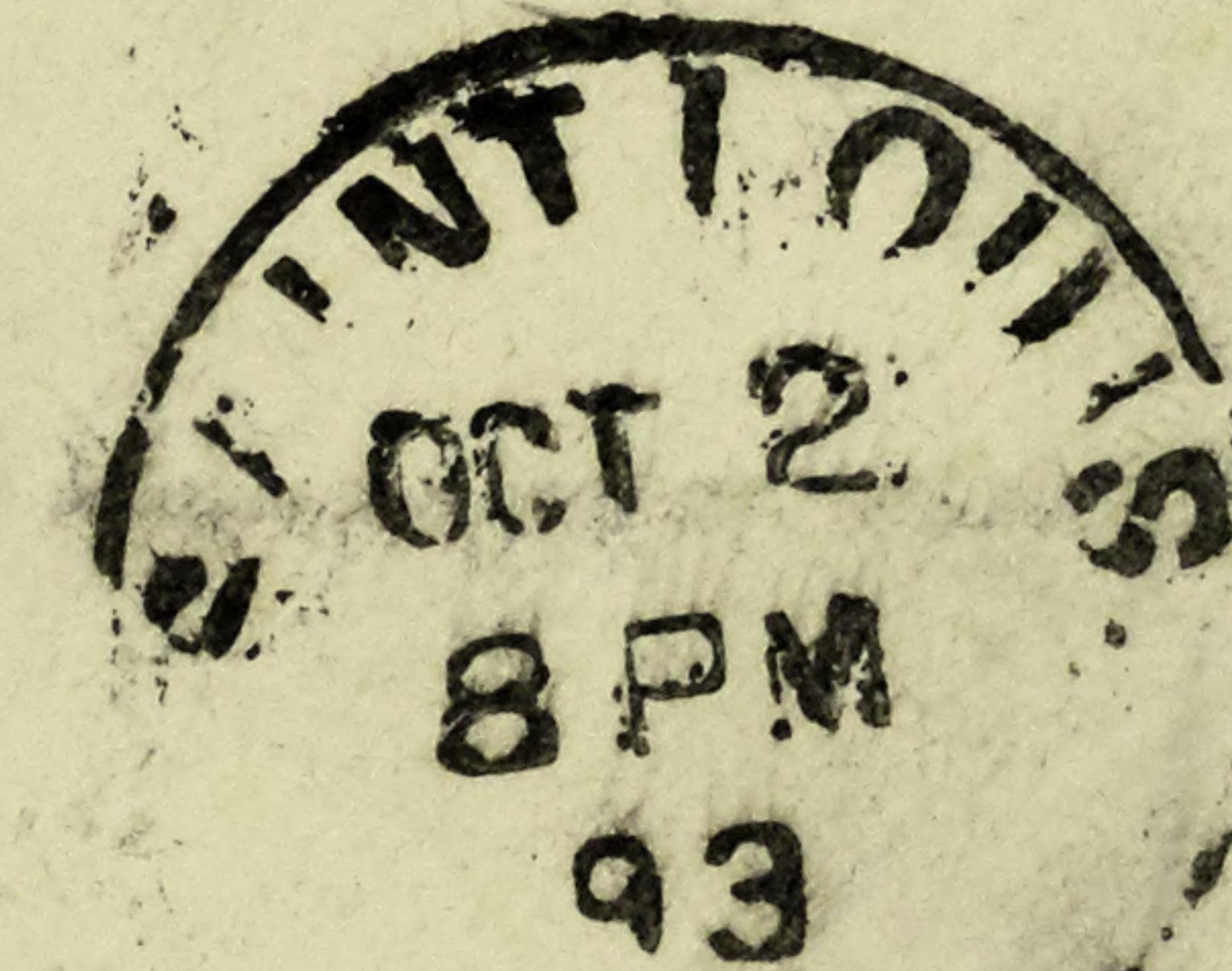
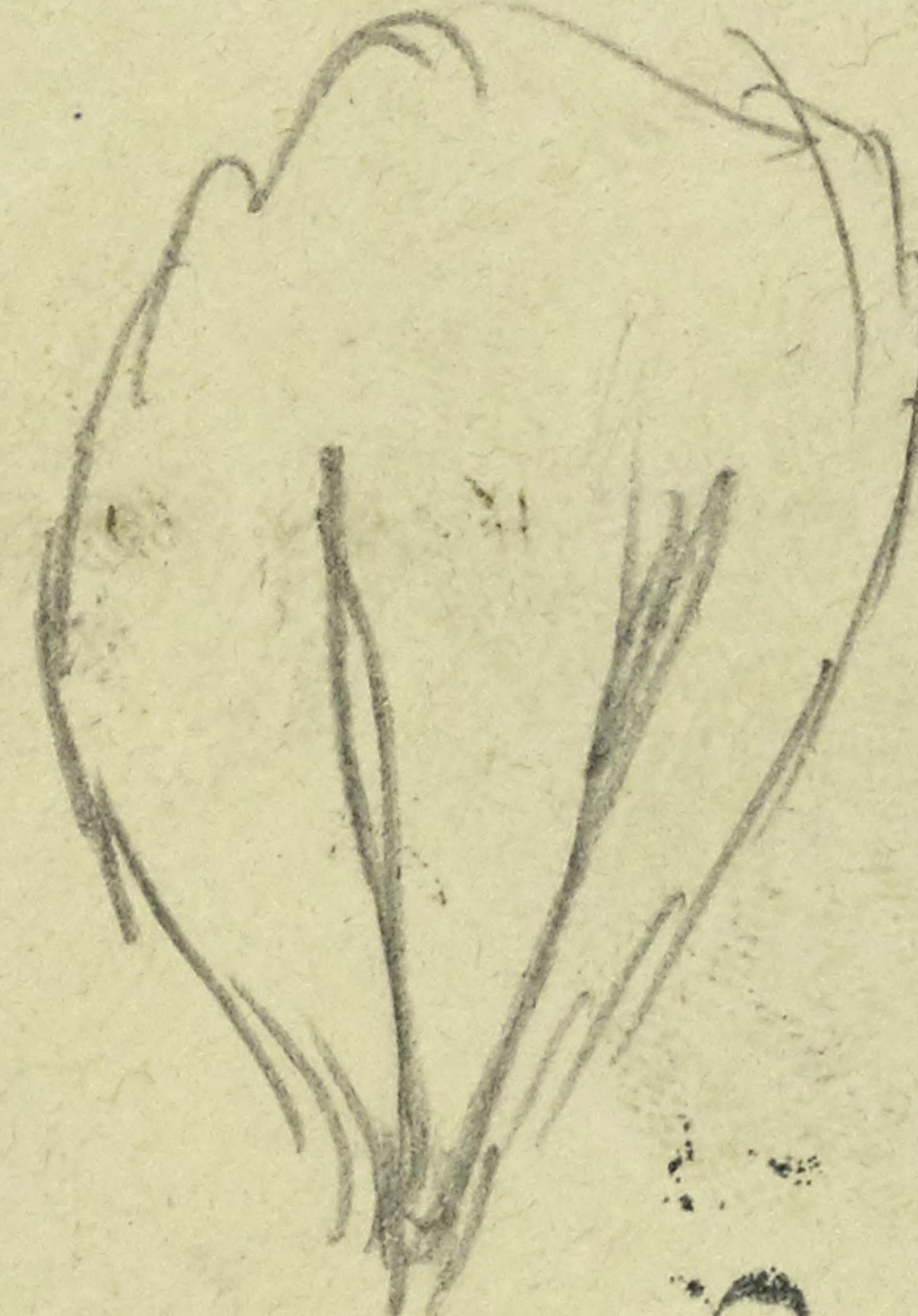
10

copyright reserved

MISSOURI  
BOTANICAL  
GARDEN

Return to  
SCRUGGS, VANDERVOORT & BARNEY  
DRY GOODS COMPANY,  
ST. LOUIS, MO.

If not delivered within Ten Days.



Miss Grace E. Johnson  
Shaw's Garden  
City.  
2263  
233  
233  
233  
233  
233  
233  
233



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

2613

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

2337

2337

2338

2338

New Jersey to the house



0  
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

I find a flower open today (I had not seen one  
at 1 P.M.) June 8, at 6 $\frac{1}{2}$  P.M. pale greenish  
yellow of color about 8 petals, about,  
cuspisate, 13 sepals 21 sepals over.  
 $\frac{1}{2}$  inch very slender, anthers brown woolly  
with some bristles.

stigmae & capitate

Handling the flower a good deal, the petals  
convinced, as if it was going to close

June 10 dark and rainy day; a flower at 2 p.m. yet  
closed - at 4 $\frac{1}{2}$  sky clearing, but no sun  
flower fully open; the same at 8 p.m., but at 9 $\frac{1}{2}$   
p.m. it was half closed

June 11 bright day - the flower of last evening did  
not open again and until 2 P.M. no others had  
opened; <sup>the afternoon</sup> a little later one began to expand;  
at 4 P.M. it was fully open but at 5 $\frac{1}{2}$  o'clock it  
was half closed and at 9 entirely so



0  
cm

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

2614

*Dr. Ph. Roemmich,*

Nachfolger von

**Dr. Alexander Dienst,  
Zahn-Arzt,**

Office: No. 914 Olive-Str.

St. Louis, Mai 1883.

*Dr. Engelmann*

Werther Herr!

Hierdurch erlaube ich mir Ihnen ergebenst anzugeben, dass ich die Office des verstorbenen Dr. Alex. Dienst, No. 914 Olive-Str., übernommen und es meine Aufgabe sein wird, dieselbe in jeder Beziehung wie bisher fortzuführen.

In der zuverlässlichen Hoffnung, dass Sie die meinem geschätzten Vorgänger bewiesene Gunst auch auf mich übertragen werden, verspreche ich mich zu bemühen, durch aufmerksame Behandlung Ihre vollen Zufriedenheit zu gewinnen.

Achtungsvoll, MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

*Ph. Roemmich,*

Zahn-Arzt.



0  
cm

1

2 3 4 5 6 7 8 9 10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN